

Call for Proposals for the use of the LBL 88-Inch Cyclotron

For the period of May 5, 1997 through October 13, 1997

13 copies must be received by Tuesday, March 18, 1997

PAC Timetable:

Proposals due at LBL:	Tuesday, March 18, 1997
PAC meeting:	April 5-7, 1997
PAC-29 Scheduling Begins:	May 5, 1997
"Summer" Maintenance Shutdown:	September 15- October 13, 1997

PAC Composition:

J. Hardy, Chair	Chalk River	V. Viola	Indiana University
N.B. Koller	Rutgers University	J. Waddington	McMaster University
W. Nazarewicz	Univ. of Tennessee	S. Yates	Univ. of Kentucky
M. Riley	Florida State University		

Please send 13 copies of your completed proposals to:

Dr. Peggy McMahan
MS 88-101
Lawrence Berkeley Laboratory
Berkeley, CA 94720

If you have any questions, you may direct them to Peggy at (510) 486-5980 or by E-mail to MCMAHAN@LBL.gov.

General Notes:

All proposals will be reviewed by Cyclotron safety and operations staff. Any significant safety or operational issues will be discussed with the Spokesperson and if warranted, will be discussed with the PAC Committee. Experimental setups must meet all safety requirements before beam is authorized by the Program Head for the Cyclotron.

If you have any PAC approved experiments from the last period, be sure to provide a brief status report on them for the PAC. Also it is very useful for Cyclotron management to have copies of preprints or reprints that come out of Cyclotron experiments, both to respond to questions from the PAC as well as from DOE. Please send to Peggy at the above address.

All participants must meet DOE, Laboratory, and Cyclotron requirements for training, etc., as detailed in the 88" Users' Handbook.

A list of beams available at the Cyclotron is attached. Other beams can be developed. Requests for separated isotopes, unless provided by the user, require justification on the Proposal form and approval by the Cyclotron Head. Experimenters may be asked to assume the cost of separated isotopes.

Spokespersons with carryover time from PAC-28 will be notified of how much carryover time they have for which experiments so they can consider that in their PAC-29 plans. It is not necessary to resubmit a proposal that was carried over from PAC-28.

The Berkeley Gas-Filled Spectrometer (BGS) will be installed in Cave 1 in August or September and will begin operation during PAC-30.

Gammasphere Scheduling Notes:

Gammasphere is scheduled to shutdown Sept. 15, 1997 to begin the move to Argonne National Laboratory. Any runs requiring Gammasphere not completed prior to its shutdown will be cancelled. In order to maximize the running time, Gammasphere scheduling in this period will be very inflexible, particularly with respect to experiments requiring auxiliary detectors. If you cannot run when time is available, you may forfeit your run. To optimize the usage of remaining time, the Committee may approve a few lower priority experiments to be run only if scheduling permits.

Gammasphere Technical Notes:

- 1) Approximately 100 detectors are in place at any given time.
- 2) Runs using auxiliary detectors will be scheduled in blocks in order to minimize set up time.
- 3) If you are proposing to use an auxiliary detector, you are encouraged to discuss technical issues with the group responsible for the detector.
- 4) The Microball detector requires light ion beams for calibration. Requests for time using Microball should include one 8-hour shift for calibration. At the time of scheduling, this may be cut down if two or more microball runs are scheduled back-to-back.
- 5) Technical notes on Microball are available on the Web at <http://wunmr.wustl.edu/~dgs/mball>. In particular, if you are planning an experiment using lighter ions at higher energies (6n or 7n reactions, for example), elastic scattering may be a problem in the forward detectors. Likewise, if you are planning an experiment using a thick-backed target, you may be limited in count-rate rate by delta electrons in the back detectors. Check the technical notes or contact Demetrios Sarantites (dgs@alpha.wustl.edu) with questions regarding the compatibility of your planned experiment with Microball.

Claude Lyneis
Program Head, 88" Cyclotron

Attachments:
Cyclotron Beam List
PAC Request Form

The PAC-29 Call and forms are available online.

If you are at LBL and have a Macintosh, you can copy them using Appleshare (*Bridged Subnet Zone, Peggy McMahan's Macintosh, PAC 29Forms* folder).

Copies of this call and the PAC 29 Form in Macintosh MS Word format or PDF format can be downloaded from the World Wide Web. The 88-Inch Cyclotron Home Page is <http://user88.lbl.gov/>.